

USE OF MOTHER STAMPER FOR OPTICAL DISK MOLDING

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5

ABSTRACT

Optical disks are formed using mother stampers having a spiral groove and/or a spiral pattern of pits corresponding to the pattern from an original laser 10 cut. The mother stamper is the mirror image of the corresponding father stamper. Injection molding of polycarbonate material or other suitable material using the mother stamper forms an optical disk having lands and bumps corresponding to the original laser cut. A 15 phase-change material having constructive change in phase and thickness is deposited over the polycarbonate material to create the disk. Data is written to and read from the lands, and tracking is performed on the wobbled lands.